

Table 3. Early tumor performance. In this evaluation, tumors are generally small or medium-sized, presenting predominantly challenging cases for tumor segmentation. This challenge is particularly pronounced in the pancreas and kidney, where tumors are more difficult to segment compared to liver tumors.

organ	tumor	label/non-label	U-Net		Swin UNETR	
			DSC / NSD (%) \uparrow	SD / HD (mm) \downarrow	DSC / NSD (%) \uparrow	SD / HD (mm) \downarrow
liver	real tumors	101/0	46.7/48.0	23.2/61.4	43.5/45.9	21.3/57.8
	Hu et al. [12]	0/116	44.5/47.6	23.8/58.8	42.3/46.5	22.9/55.4
	Pixel2Cancer	0/116	47.2/52.9	17.9/52.4	45.4/51.6	18.7/51.3
pancreas	real tumors	96/0	34.3/33.9	22.2/ 47.7	28.3/33.6	22.3/45.9
	Hu et al. [12]	0/104	27.3/28.0	28.4/52.0	25.8/27.3	29.5/50.9
	Pixel2Cancer	0/104	36.5/35.9	21.9/52.2	31.5/34.6	21.7/41.8
kidney	real tumors	96/0	17.9/16.1	102.8/150.6	29.4/27.6	93.8/136.8
	Hu et al. [12]	0/120	14.8/17.4	70.1/112.9	23.5/25.9	83.2/ 122.3
	Pixel2Cancer	0/120	18.1/19.3	85.2/131.7	28.6/ 28.2	80.9/127.2

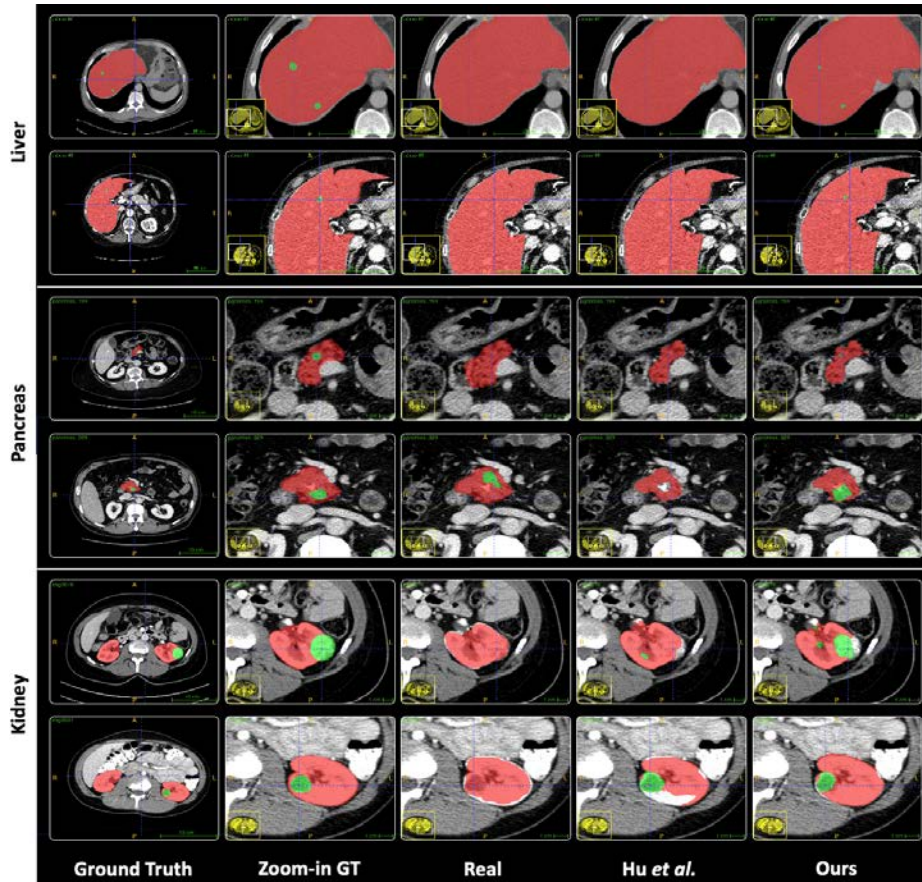


Fig. 4. Examples of early tumor detection. Qualitative visualizations of segmentation models for liver, pancreas, and kidney tumor detection.

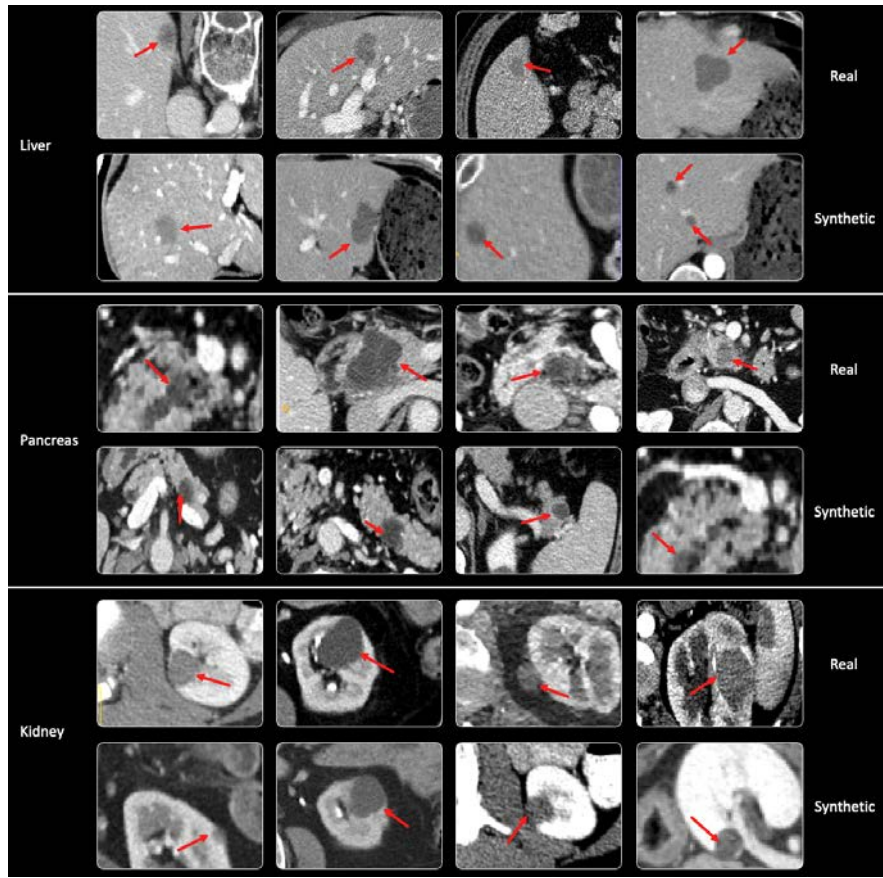


Fig. 5. Examples of Visual Turning Test. Tubular results are presented in Table 1. Our Pixel2Cancer can be used to augment available healthy CT volumes.

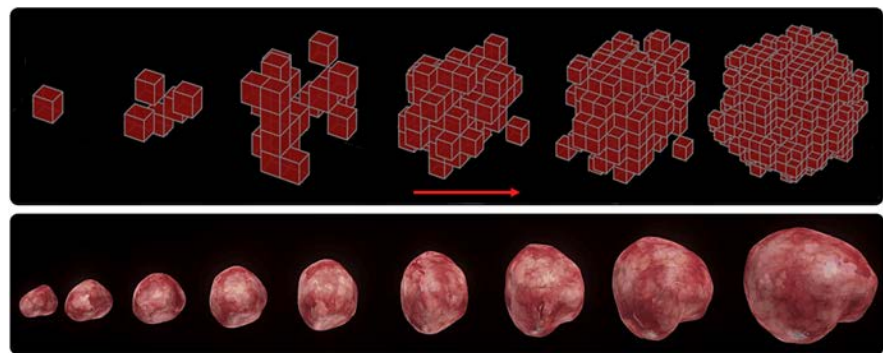


Fig. 6. Tumor development visualization. This rendering visualization depicts the iteration of Pixel2Cancer and the progression of tumors. We illustrate iterations and the gradual development of tumors.